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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/609,298 Confirmation No.: 9201  
Applicant: Sommadossi *et al.*  
Filed: June 27, 2003  
TC/A.AU.: 1623  
Examiner: Unassigned

Docket No.: 06171.105059 IDX 1017  
Customer No.: 20786  
Title: 2' and 3'-Nucleoside Prodrugs for Treating Flaviviridae Infections

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

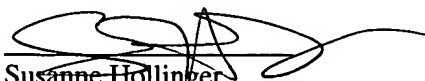
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Respectfully submitted,

  
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|                        |                          |
|------------------------|--------------------------|
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| Filing Date            | June 27, 2003            |
| First Named Inventor   | Sommadossi <i>et al.</i> |
| Group Art Unit         | 1623                     |
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**U.S. PATENT DOCUMENTS**

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|                        |                          | Office <sup>3</sup>     | Number    | Kind Code <sup>2</sup><br>(if known) |  |   |  |                |
|                        | AA                       | EP                      | 0 747 389 |                                      | Taiho Pharmaceutical Co.                           | 12-11-1996  |  |                |
|                        | AB                       | GB                      | 1 163 102 |                                      | MERCK & Co.  | 09-04-1969  |  |                |
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|                        | AD                       | GB                      | 1 209 654 |                                      | MERCK & Co.  | 10-21-1970  |  |                |
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|------------------------|--------------------------|---|----------------|
|                        | AE                       | AWANO, H. <i>et al.</i> , "Synthesis and Antiviral Activity of 5-Substitute (2'S)-2'-C-Methylcytidines and -Uridines <sup>11)</sup> " Nucleosides and Nucleotides, Part 144 ARCHIV DER PHARMAZIE, VCH VERLAGSGESELLSCHAFT MBH, WEINHEIM, DE, Vol. 329, 01 February 1996 (1996-02-01), pp. 66-72 |                |
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| Examiner<br>Signature | Date<br>Considered |
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|   |  |  |  | Group Art Unit           | 1623                     |
|   |  |  |  | Examiner Name            | Unassigned               |
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|   | BA                    | FEDEROV, I.I., <i>et al.</i> , "3'-C-Branched 2'-Deoxy-5-Methyluridines: Synthesis, Enzyme Inhibition, and Antiviral Properties" Journal Of Medicinal Chemistry, American Chemical Society, Washington, US, Vol. 35, 1992, pp. 4567-4575  |                |
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|   | BG                    | JOHNSON, <i>et al.</i> , "Nucleosides & Nucleotides -- 3'-C-TrifluoromethylRibonucleoside", , Marcel Dekker, Inc., US, Vol. 14, no. 1/2, 1995, pp. 185-194  |                |
|   | BH                    | LI, Nan-Sheng <i>et al.</i> , "2'-C-Branched Ribonucleosides. 2. Synthesis of 2'-C-β-Trifluoromethyl Pyrimidine Ribonucleosides, Organic Letters, Vol. 3, No. 7, 2001, pp. 1025-1028  |                |
|   | BI                    | MATSUDA, A. <i>et al.</i> , "Radical Deoxygenation of Tert-Alcohols in 2'-Branched-Chain Sugar Pyrimidine Nucleosides :Synthesis and Antileukemic Activity of 2'-Deoxy-2' (S)-Methylcytidine" Chemical and Pharmaceutical Bulletin, Pharmaceutical Society of Japan, Tokyo, JP, Vol. 35, 1987, pp. 3967-3970                        |                |
|   | BJ                    | MATSUDA, A. <i>et al.</i> , "Nucleosides and Nucleotides. 94. Radical Deoxygenation of Tert-Alcohols in 1-(2-C-alkylpentafuranosyl) Pyrimidines : Synthesis of (2'S)-2-Deoxy-2'-C-Methylcytidine, an Antileukemic Nucleoside" Journal of Medicinal Chemistry, American Chemical Society. Washington, US, Vol. 34, 1991, pp. 234-239 |                |
|   | BK                    | MIKHAILOV, S. N. <i>et al.</i> , "Synthesis and Properties of 3'-C-Methylnucleosides and their Phosphoric esters" Carbohydrate Research, Elsevier Scientific Publishing Company, Amsterdam, NL, Vol. 124, 1983, pp. 75-96   |                |
|   | BL                    | MURAL, Y. <i>et al.</i> , "A Synthesis and an X-ray Analysis of 2'-C-, 3'-C- and 5'-C-Methylsangivamycins" HETEROCYCLES, Vol. 33, no. 1, 1992, pp. 391-404  |                |

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|   | CA                       | ONG <i>et al.</i> , "Synthesis of 3'-C-Methyladenosine and 3'-C-Methyluridine Diphosphates and their Interaction with the Ribonucleoside Diphosphate Reductase from <i>Corynebacterium Nephridii</i> " <i>Biochemistry</i> , American Chemical Society, Vol. 31, No. 45, 1992, pp. 11210-11215 |                |  |
|   | CB                       | ROSENTHAL, A. <i>et al.</i> , "Branched-Chain Sugar Nucleosides. Synthesis of 3'-C-Ethyl (and 3'-C-Butyl) Uridine" <i>Carbohydrate Research</i> , Elsevier Scientific Publishing Company. Amsterdam, NL, Vol. 79, 1980, pp. 235-242  |                |  |
|   | CC                       | SCHMIT, C., "Synthesis of 2'-Deoxy-2'-α-Monofluoromethyl and Trifluoromethyl Thymine Nucleoside" <i>SYNLETT</i> , Thieme Verlag, Stuttgart, DE, no. 4, 1994, pp. 241-242   |                |  |
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